## PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference V 7617 / UP	FOR FURTHER ACTION as we	see Form PCT/ISA/220 Il as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/EP2004/014618	22/12/2004	22/12/2003
Applicant		
VEGA GRIESHABER KG		
This International Search Report has be according to Article 18. A copy is being	nen prepared by this International Searching Aut transmitted to the International Bureau.	hority and is transmitted to the applicant
This International Search Report consis  X It is also accompanied to	ts of a total of 6 sheets.  by a copy of each prior art document cited in this	report.
	e international search was carried out on the ba nless otherwise indicated under this item.	sis of the international application in the
this Authority (F	Rule 23.1(b)).	lation of the international application furnished to
	eotide and/or amino acid sequence disclosed	in the international application, see Box No. I.
<ol> <li>Certain claims were for</li> <li>X</li> <li>Unity of invention is lateral</li> </ol>		
4. With regard to the title,		
	submitted by the applicant.	
<b>≒</b> '`	lished by this Authority to read as follows:	
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		•
		•
5. With regard to the abstract,		
	submitted by the applicant.	
	lished, according to Rule 38.2(b), by this Authori from the date of mailing of this international sear	
6. With regard to the drawings,		
· —	published with the abstract is Figure No1_	
X as suggested b		
<u> </u>	his Authority, because the applicant failed to sug	,,,
_ —	his Authority, because this figure better characte	enzes the invention.
b. none of the figures is to	be published with the abstract.	

International application No. PCT/EP2004/014618

Box II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Inte	rnational Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1. X	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark	on Protest    X   The additional search fees were accompanied by the applicant's protest.   No protest accompanied the payment of additional search fees.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1,11-19

Claim 1: Method of automatically configuring a HART multidrop system comprising the following steps:

- connecting the slave devices

- switching on the power source for the slave devices in the master device.
- transmitting the HART command "Write Polling Address" as a broadcast command from the master device with a polling address not equal to zero and
- changing the addresses for all slave devices from the identical address to a unique address for each slave device. Claims 11-19: HART multidrop system comprising at least one master device, a plurality of slave devices coupled to the at least one master device and a control unit.

#### 2. claims: 2-10

Method of expanding and automatically configuring the expanded HART multidrop system comprising a plurality of slave devices connected to at least one master device, and which is to be completed by at least one more slave device, wherein the method includes the step as follows:

- connecting the at least one more slave device.

- switching off the power source for the slave devices in the master device if it is still switched on.
- switching on the power source for all slave devices in the master device.
- transmitting the HART command "Write Polling Address" as a broadcast command from the master device with a polling address not equal to zero and
- changing the addresses for all slave devices from the identical address to a unique address for each slave device.

International Application No PCT/EP2004/014618

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G05B19/042 G05B19/418

According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols) IPC 7 G05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MUELLER W: "DAS HART-FELD-KOMMUNIKATIONS-PROTOKOLL" AUTOMATISIERUNGSTECHNISCHE PRAXIS - ATP, OLDENBOURG VERLAG. MUNCHEN, DE, vol. 34, no. 9, 1 September 1992 (1992-09-01), pages 518-520,521, XP000311930 ISSN: 0178-2320 paragraphs '0002! - '0004!	1-19
X	"Gebrauchsanweisung IR - Type 334" February 2002 (2002-02), DRÄGER , GERMANY , XP002332894 page 8 - page 9 page 17 page 47 - page 48	1-19

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
<ul> <li>Special categories of cited documents:</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier document but published on or after the international filing date</li> <li>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filing date but later than the priority date claimed</li> </ul>	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Date of the actual completion of the international search  14 September 2005	Date of mailing of the international search report  1 0. 10. 2005
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31–70) 340–2040, Tx. 31 651 epo nl,  Fax: (+31–70) 340–3016	Authorized officer Pöllmann, H.M.

Form PCT/ISA/210 (second sheet) (January 2004)

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International Application No
PCT/EP2004/014618

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C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
Salegory "	Citation of document, with analoguon, where appropriate, or the relevant passages		nelevalii (O Cidiiii (YO.
X	ANONYMOUS: "HART, Field Communications N Protocol, Application Guide" HART FIELD COMMUNICATIONS PROTOCOL APPLICATION GUIDE, 1999, pages 1-79, XP002219606		11-19
Α	the whole document		1-10
Α	Bedienungsanleitung IBIS für den HART Stellungsregler Typ 3780, Programm-Version 2.20, Ausgabe Juni 1999, SAMSON AG XP002344983 the whole document		1-19
A	DE 197 33 906 A1 (SIEMENS AG, 80333 MUENCHEN, DE; SIEMENS AG) 11 February 1999 (1999-02-11) the whole document		1,2,11
Α	DE 44 41 752 A1 (SIEMENS AG, 80333 MUENCHEN, DE) 30 May 1996 (1996-05-30) the whole document		1,2,11
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Information on patent family members

International Application No
PCT/EP2004/014618

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
DE 19733906	A1	11-02-1999	AT	231669 T	15-02-2003
			CN	1266574 A	13-09-2000
			WO	9908164 A2	18-02-1999
			EP	1020051 A2	19-07-2000
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			PL	343866 A1	10-09-2001
			US	6700877 B1	02-03-2004
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